

Notice of Allowability

Application No.

09/637,039

Examiner

Tammy T. Nguyen

Applicant(s)

HSIEH ET AL.

Art Unit

2144

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE July 18, 2007.
2. ☒ The allowed claim(s) is/are 1-3, 5, 7-10, 12-15, 24-25, and 28-30 (New Claims 1-17).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


WILLIAM VAUGHN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100



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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Eric M. Crabski (reg.51, 749) on September 25, 2007.

3. The applicant has been amended as follow:

1. (Currently Amended) A method for cabling a plurality of computing components for a desired installation, the method comprising:

automatically identifying a first computing component and a second computing components for connection according to a predetermined cabling sequence for connecting the plurality of computing components;

automatically determining a type of cabling connection to be made between the first and second computing components;

automatically identifying, from a plurality of first physical ports on [[a]] the first computing component, a particular first physical port to be used for manual cable connection to a

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second physical port on ~~[[a]]~~ **the** second computing component for physically connecting the first and second computing components;

before the particular first physical port on the first computing component is manually connected to the second physical port on the second computing component, generating a user-detectable illumination signal on the first computing component indicating the particular first physical port, the user-detectable illumination signal assisting a user in determining which of the plurality of first physical ports to manually connect by cable to the second physical port on the second computing component; and

repeating the steps of identifying physical ports for manual cable connection and generating illumination signals until each of the plurality of computing components has been connected as desired for the installation.

2. **(Currently Amended)** The method of Claim 1 further comprising, before **automatically** identifying the particular first physical port of the first computing component:

identifying the first computing component to be connected to the second computing component; and

identifying the second computing component to be connected to the first computing component.

3. **(Original)** The method of Claim 1 further comprising:
identifying at least one port on the first computing component to be connected to at least one port on the second computing component; and

identifying at least one port on the second computing component to be connected to at least one port on the first computing component.

4. **(Previously Cancelled)**

5. **(Original)** The method of Claim 1 further comprising illuminating at least one LED on the first computing component and at least one LED on the second computing

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component indicative of the cabling connection to be made between the first computing component and the second computing component.

6. (Previously Cancelled)

7. (Original) The method of Claim 1 further comprising establishing communications with at least one computing component to be connected via a management communications interface.

8. (Previously Presented) The method of Claim 1 wherein the illumination signal indicates a type of cabling connection to be made between the first and second computing components.

9. (Original) The method of Claim 1 further comprising verifying completion of the cabling connection between the first computing component and the second computing component.

10. **(Currently Amended)** An information handling system, comprising:
at least one processor;
memory operably associated with the at least one processor;
a management communications interface operably coupled to the processor and the memory;
the management communications interface operably coupled to a communications network;
a program of instructions storable in the memory and when executed by the processor operable to:
automatically identify a first computing component and a second computing components for connection according to a predetermined cabling sequence for connecting a plurality of computing components;

automatically determine a type of cabling connection to be made between the first and second computing components;

automatically identify, from a plurality of first physical ports on **[[a]] the** first computing component, a particular first physical port to be used for manual cable connection to a second physical port on **[[a]] the** second computing component for physically connecting the first and second computing components; **[[and]]**

before the particular first physical port on the first computing component is manually connected to the second physical port on the second computing component, generate a user-detectable illumination signal on the first computing component indicating the particular first physical port, the user-detectable illumination signal assisting a user in determining which of the plurality of first physical ports to manually connect by cable to the second physical port on the second computing component; **and**

repeat the steps of identifying physical ports for manual cable connection and generating illumination signals until each of the plurality of computing components has been connected as desired.

11. (Previously Cancelled)

12. (Previously Presented) The information handling system of Claim 10 further comprising:

the program of instructions further operable to identify, from a plurality of second physical ports on the second computing component, a particular second physical port on the second computing component to be connected to the particular first physical port on the first computing component.

13. (Previously Presented) The information handling system of Claim 10 further comprising the program of instructions operable to illuminate at least one LED on the first computing component indicative of the particular first physical port to be used for manual cable connection with the second computing component.

14. (Previously Presented) The information handling system of Claim 12 further comprising:

the program of instructions operable to generate a user-detectable illumination signal on the second computing component indicating the particular second physical port included thereon to be manually connected by cable to the particular first physical port included on the first computing component.

15. (Previously Presented) The information handling system of Claim 10 further comprising the program of instructions operable to alter the illumination signal on the first computing component to indicate a type of cabling connection to be made between the first and second computing components.

16-23. (Previously Cancelled)

24. (Previously Presented) The method of Claim 1, further comprising:
identifying, from a plurality of second physical ports on the second computing component, a particular second physical port and to be physically connected to the identified particular first physical port on the first computing component; and

before the identified first physical port on the first computing component is physically connected to the second physical port on the second computing component, generating an illumination signal on the second computing component indicating the particular second physical port identified to be physically connected to the identified particular first physical port on the first computing component.

25. (Currently Amended) A method for physically connecting a plurality of computing components for a desired installation, the method comprising:

automatically identifying from the plurality of computing components a first computing component and a second computing component to manually cable to each other, according to a predetermined connection sequence;

automatically determining a type of cabling connection to be made between the first and second computing components;

automatically identifying, from a plurality of first physical ports on the first computing component, a particular first physical port to be used for manual cable connection to a second physical port on a second computing component for physically connecting the first and second computing components;

before the identified first and second computing components are manually connected to each other, generating a user-detectable illumination signal on each of the first and second computing components, the user-detectable illumination signals assisting a user in identifying which of the plurality of first physical ports ~~computing components~~ to manually cable to the second physical port on the second computing component ~~each other~~; and

repeating the steps of identifying pairs of computer components to manually cable to each other and generating illumination signals on each of the identified computer components until each of the plurality of computing components has been connected as desired for the installation.

26. **Cancelled.**

27. **Cancelled.**

28. (Previously Presented) The method of Claim 25, wherein generating a user-detectable illumination signal on each of the first and second computing components comprises illuminating at least one LED on the first computing component and at least one LED on the second computing component to assist the user in identifying which of the plurality of computing components to manually connect to each other

29. (Previously Presented) The method of Claim 25, wherein the illumination signal indicates a type of cabling connection to be made between the first and second computing components.

30. (Previously Presented) The method of Claim 25, further comprising:
accessing a predetermined cabling sequence in which each of the plurality of computing components are to be connected; and
automatically identifying the first and second computing components for connection according to the predetermined cabling sequence.

4. The following is an examiner's statement of reasons for allowance:

In interpreting the claims, in light of the specification and the applicant's arguments filed on August 1, 2007 the examiner finds the claimed invention to be patentably distinct from the prior art of record.

5. Michel Chu; Hsiao-Wei (US6,466,989)., teaches a network connection device having internal circuitry capable of wiring correctly to a network cable is described. The network connection device includes an interface circuit, a switching array and a controlling circuit. First, the network connection device is physically connected to the network cable. Next, the positive and negative receiving terminals in the interface circuit are connected to a pair of signal carrying wires through the device's internal circuitry. Depending on the returned preamble field, the connections to the signal-carrying wires are judged to be either incorrect, in which case the connection has to be swapped through device's internal circuitry, or correct, in which case no swapping is required. Subsequently, the positive and negative transmission terminals are connected to a second pair of wires inside the network cable. Next, a data packet is sent out through the transmission terminal. According to the acknowledgement packet returned, the connections to the second pair of wires are judge to be either incorrect, in which case the

connection has to be swapped through device's internal circuitry, or correct, in which case no swapping is required.

6. Kraml et al., (US 6,490,297), teaches the system and method of the invention enable any channel of a multi-channel communication link to be used for transmission of a control signal to a system component by a system controller. The system component, connected to the system controller by the multi-channel communication link, automatically locates the one or more signaling channels carrying the control signal(s) and then establishes communication with the system controller in accordance with the control signal(s).

7. Shaffer et al., (US 5,761,294), teaches a method and system of enabling incoming and outgoing call capability for a digital telephone that is limited to analog transmissions include providing a converter that locally supports the protocol of the digital telephone, but that converts digitized signals of voice information, party-specific call messages and call-handling call messages into outgoing analog signals. In one embodiment, one analog signal carries the voice information and a second analog signal carries the party-specific and call-handling call messages, with the first analog signal being transmitted via a public switching telephone network and the second analog signal being transmitted via a data network.

8. However, the prior art of record fails to teach or suggest individually or in combination that a method for cabling a plurality of computing components for a desired installation, the method comprising:

automatically identifying a first computing component and a second computing components for connection according to a predetermined cabling sequence for connecting the plurality of computing components;

automatically determining a type of cabling connection to be made between the first and second computing components;

automatically identifying, from a plurality of first physical ports on the first computing component, a particular first physical port to be used for manual cable connection to a second physical port on the second computing component for physically connecting the first and second computing components;

before the particular first physical port on the first computing component is manually connected to the second physical port on the second computing component, generating a user-detectable illumination signal on the first computing component indicating the particular first physical port, the user-detectable illumination signal assisting a user in determining which of the plurality of first physical ports to manually connect by cable to the second physical port on the second computing component; and

repeating the steps of identifying physical ports for manual cable connection and generating illumination signals until each of the plurality of computing components has been connected as desired for the installation as set forth in independent claims 1, and 21. Claims 2, 3, 6-9, 11-19, and 22-28 are allowed because of the combination of other limitations and the limitation listed above.

9. The examiner finds the Applicant's arguments on pages 8-10 of the Remarks filed on July 18, 2007 to be persuasive. The applicant argued in substance that the combination of prior art of record fail to disclose the feature of the invention. Also see specification, pages 10-11 and pages 12-14.

10. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submission should be clearly labeled "Comments on Examiner's Amendment".


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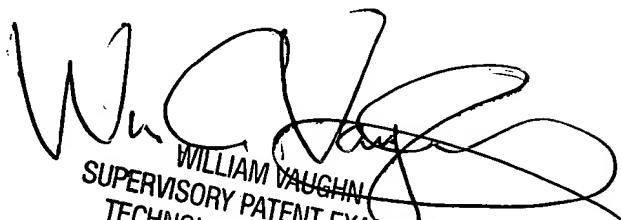
11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tammy T. Nguyen whose telephone number is 571-272-3929.

The examiner can normally be reached on Monday - Friday 8:30 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, *William Vaughn* can be reached on 571-272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


September 27, 2007


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